

# Bourdon Tube Pressure Switches

**Type B1T-.../B2T-...**

**Mechanical single/dual pressure switch**  
**Repeatability  $\pm 1.0\%$  at constant temperature**

## Features

Bourdon tube pressure switch  
 All welded parts wetted.  
 Direct acting, no friction, high accuracy

## Adjustment ranges

4.8 ... 950 bar

## Applications

Pump control,  
 Die-casting machines,  
 Press control,  
 Power plants,  
 Alarm functions

## Technical Data

<b>Wetted parts:</b> Process connection: Bourdon tube:	Stainless steel 1.4401 Stainless steel 1.4401
<b>Repeatability:</b>	$\pm 1\%$ at constant temperature
<b>Switching rate:</b>	max. 20/min
<b>Temperature range:</b>	$-40^{\circ}\text{C} \dots +75^{\circ}\text{C}$
<b>Protection class:</b>	IP65
<b>Housing:</b>	Aluminium, anodized
<b>Process connection:</b>	1/4" NPT female thread except ranges marked with *). These switches have proof pressures above 500 bar and are provided with high pressure thread with adapter "G1/4 female".
<b>Electrical connection:</b>	Internal terminal strip (0.5 ... 2.5 mm <sup>2</sup> ) Standard: WAGO terminal and cable gland PG13,5

<b>Electrical ratings and hysteresis:</b>	A large variety of micro switches offers different electrical ratings and hysteresis for many applications.
<b>Weight:</b>	B1T-...: approx. 1.1 kg B2T-...: approx. 1.2 kg
<b>Set point adjustment:</b>	Turn the adjustment screw clockwise to decrease the set point
<b>Intrinsically safe:</b>	The switches are designed for intrinsically safe applications. Please add "Exi" to your ordering details when placing an order. To comply with the intrinsically safe approval following max. ratings must not be exceeded: U <sub>max</sub> = 28 V I <sub>max</sub> = 50 mA
<b>Approval:</b>	---

## Pressure ranges

Pressure range code	Adjustment range [bar]		Max. operating pressure [bar]	Proof pressure [bar] (short term)	Max. hysteresis of switch types in bar (end of range)	
	Increasing press.	Decreasing press.			H, GH [bar]	M, GM [bar]
<b>12SS</b>	4.8 ... 82	3.4 ... 81	100	120	0.96	1.86
<b>32SS</b>	13.7 ... 220	11.0 ... 217	250	330	2.68	5.44
<b>48SS</b>	22.4 ... 330	16.5 ... 325	400	500	2.75	5.90
<b>65SS*</b>	30.3 ... 448	22.5 ... 440	550	670	3.58	7.92
<b>120SS*</b>	79.3 ... 827	41.4 ... 790	900	1200	16.90	37.90
<b>180SS</b>	79.3 ... 950	41.4 ... 950	999	1600	16.90	37.90



Index: D

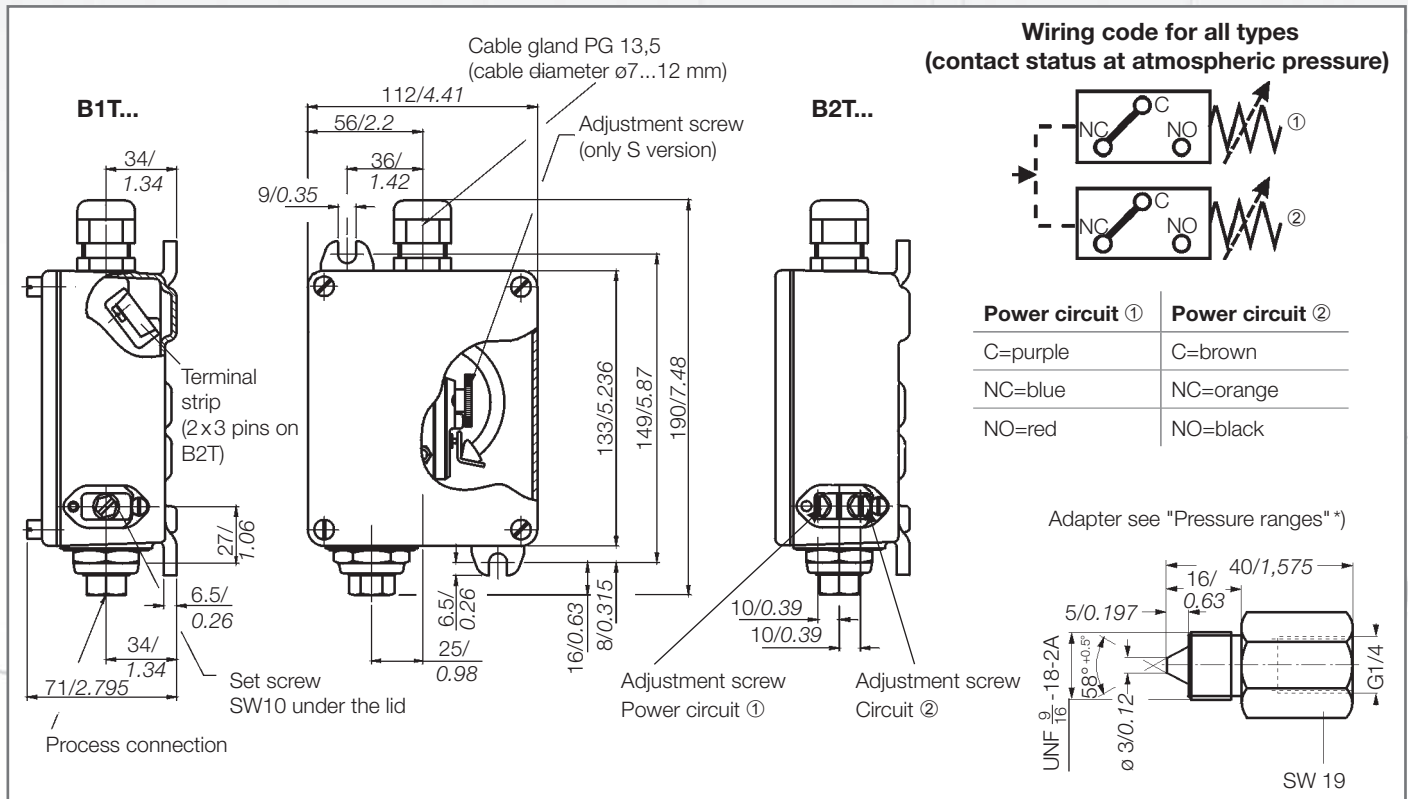
Specifications are subject to changes without notice.

## Bourdon Tube Pressure Switches

**Type B1T-.../B2T-...**

### Dimensions (in mm / inch)

Index: D



### Electrical ratings

Micro switch	Special features	Volt AC 50/60 Hz	Ind. load A	Res. load A	Volt DC	Ind. load A	Res. load A	Comments
<b>H</b>	Micro switch with silver contacts	125 250 480*	10 10 3	10 10 3	6 to 24	0.50	0.5	Small hysteresis; High AC / low DC loads
<b>M</b>	Micro switch with silver contacts	125 250 480*	10 10 3	10 10 3	12 24 250	5.00 1.00 0.25	15.0 2.0 0.4	Medium hysteresis; High AC and DC loads
<b>GH</b>	Micro switch with gold-plated contacts for low voltage and/or low current	125	1	1	24	1.00	1.0	Small hysteresis
<b>GM</b>		30	0.1	0.1	30	0.10	0.1	Medium hysteresis

\* on request

### Options

B1T-...	B2T-...
<b>ST1</b> Plug, 3-pin + E, DIN EN 175 301-801-A (prev. DIN 43650)	<b>ST3</b> Plug, 6-pin + E, DIN EN 43651
<b>ST2</b> Amphenol plug 4-pin + E	<b>EXI</b> for intrinsically safe application
<b>EXI</b> for intrinsically safe application	

### Ordering

#### Example for order number

Type	Micro switch	Pressure range code	Options
<b>B1T</b> or <b>B2T</b>	<b>H</b>	<b>48SS</b>	<b>ST2</b>

#### Your order number

Type	Micro switch	Pressure range code	Options
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>